

US-PAT-NO: 6086863

DOCUMENT-IDENTIFIER: US 6086863 A

TITLE: Compositions of microspheres  
for wound healing

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Detailed Description Text - DETX (2):

The present invention relates to prophylactic and therapeutic compositions and a method for promoting wound healing by using microspheres. Unexpectedly, microspheres of the particular size range described herein are able to promote wound healing without the further addition or inclusion of any drug or other therapeutic substance. Indeed, as described below, these microspheres do not degrade or undergo other chemical alteration in order to produce their therapeutic effect. The microspheres of the present invention can also be administered as adjuvant therapy to conventional therapies, e.g., radiation, chemotherapy, hormone, laser, high pressure or ozone therapy.

Detailed Description Text - DETX (38):

A variety of methods may be used to obtain the constitutive or transient expression of gene products engineered into the stromal cells. For example, the transkaryotic implantation technique described by Seldon, R. F., et al.,

1987, Science 236:714-718 can be used.

"Transkaryotic", as used herein, suggests that the nuclei of the implanted cells have been altered by the addition of DNA sequences by stable or transient transfection. The cells can be engineered using any of the variety of vectors including, but not limited to, integrating viral vectors, e.g. retrovirus vector or adeno-associated viral vectors, or non-integrating replicating vectors, e.g. papilloma virus vectors, SV40 vectors, adenoviral vectors; or replication-defective viral vectors. Where transient expression is desired, non-integrating vectors and replication defective vectors may be preferred, since either inducible or constitutive promoters can be used in these systems to control expression of the gene

Detailed Description Text - DETX (53):

Surgery (including surgery for, but not limited to the following organs and tissues: skin, breast, chest wall, pleura, lung and mediastinum, heart disease, disease of great vessels, peripheral arterial disease, gastrointestinal disease, stomach, colon, rectum and anus, appendix, liver, gallbladder and extrahepatic biliary system, pancreas, spleen, peritonitis and intraabdominal infection, abdominal wall, omentum, mesentery, and retroperitoneum, abdominal wall hernias, pituitary and adrenal, pediatric surgery, thyroid and parathyroid, urology, gynecology, neurosurgery, orthopedics, amputations, hand, plastic and reconstructive surgery, oncological surgery, head surgery,

orthopedic, musculoskeletal, genitourinary system, pediatric, gastrointestinal), internal wounds, plastic surgery, gynecological surgery, scar removal, laser treatment, rentgen radiation, radioactive radiation, ozone treatment, or heat treatment, are some procedures that result in wounds that trigger the onset of host defenses. Host defenses against infection can be local or systemic, nonspecific or specific, and humoral or cellular. A variety of normal functions act continually to reduce the body's bacterial burden and to expedite the healing processes. The prophylactic and therapeutic compositions of the present invention can be used to accelerate or enhance the natural immunological phenomena involved in dealing with potential invading pathogens, for example the combined protective effects of anatomic barriers, baseline cellular phagocytosis, digestion by phagocytic cells or effector mechanisms.

Detailed Description Text - DETX (141):

c) A therapeutic composition made up of microspheres as described in Section 5.1 above, except that an astringent is added to the composition to provide an emergency or battlefield therapeutic composition, for example, about 75-250 mg/ml of alum, about 100-1000 mg/ml of witch hazel, about 1-10% of povidine iodine, about 10-100 mg/ml ozone as an oxygen base or 10-100 mg/ml hydrogen peroxide.

Detailed Description Text - DETX (148):

j) A therapeutic composition made up of microspheres as described in Section 5.1 above, administered in combination therapy with radiation therapy, laser treatment, high pressure therapy or ozone.